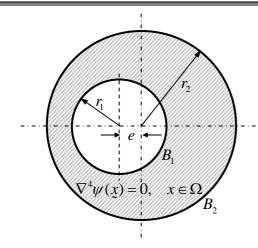
## Flow between Eccentric Rotating Cylinders (Case 1)



## **Geometry Conditions:**

$$r_1 = 0.5$$

$$r_2 = 1$$

$$e = 0.25$$

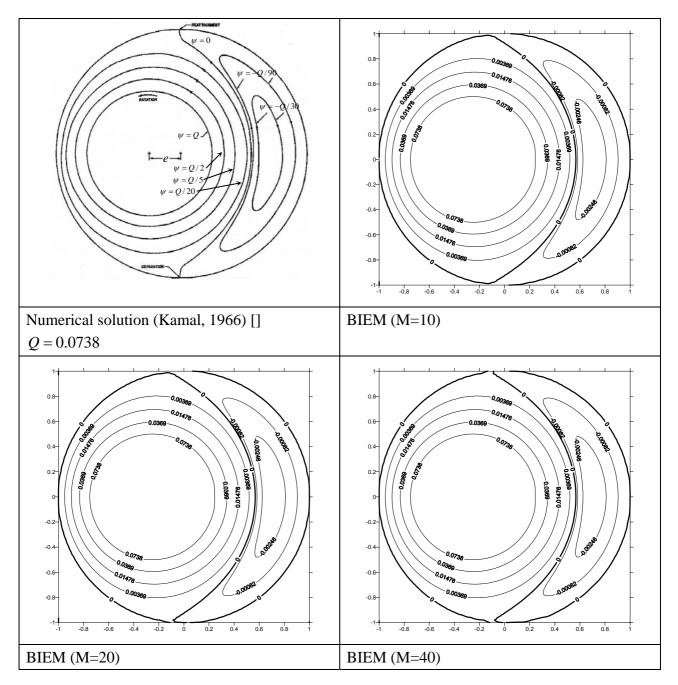
## **Governing Equation:**

$$\nabla^4 \psi(x) = 0, \quad x \in \Omega$$

## **Boundary Conditions:**

$$\psi = \psi_1 = 0.0738$$
 and  $\frac{\partial \psi}{\partial n} = \Omega_1 r_1 = 0.5$  on  $B_1$ 

$$\psi = 0$$
 and  $\frac{\partial \psi}{\partial n} = 0$  on  $B_2$ 



【檔名:lubrication-1.doc 日期:2005/3/9/蕭嘉俊製表】